



## Product

VIP110-24

## Software Version

2.60.02

**Note: Please read this entire document before proceeding with the upgrade; there may be special instructions or prerequisites that need to be followed.**

## Reason for Change

The software, as listed in the “Files Included Section”, including the procedures defined in this document will provide the following changes (enhancements and bug fixes) for your Eion product.

Features (Since Release 2.5.11):

1. VLAN (*with 2.1.0 feature key*)
2. Email Alarm Client (*with 2.1.0 feature key*)
3. Web Interface (*with 2.1.0 feature key*)
4. RF Plug and Play (*with 2.1.0 feature key*)
5. DHCP (*with 2.1.0 feature key*)
6. Dynamic Power Control (*with 2.1.0 feature key*)
7. Two tier Password
8. Challenge Password

Note: see user manual for description of features

Enhancements (Since Release 2.5.11):

1. Runtime and Uptime Clocks
2. Priority Queue Enhancement

There are now 3 levels of priority rather than the previous 2. Packets will be placed in priority queues based on their ToS bits and VLAN priority.

**No VLAN:**

If vlan tagging is not being used only the TOS bytes will be examined. The priority will be based on the value set in the TOS bytes, see the table below.

TOS Value	Queue Priority
0-3	Low
4-5	Medium
6-7	High

### VLAN Priority:

If your using VLAN tagging in your network the radio will examine the priority bits in the VLAN tag and select the queuing based on the table below.

Vlan Tag	Queue Priority	Description
0-3	Based on TOS value	If the vlan tag is 0-3 then the TOS level is checked to determine priority
4-5	Medium	
6-7	High	

Management Traffic to any VIP in the network is automatically assigned a high priority, regardless of the ToS or VLAN priority.

### 3. NTP Enhancement

The VIP has always had the ability to set its internal clock based on NTP packets seen on its wired Ethernet port. This has been expanded to include NTP packets seen on its RF port.

It's important to note that the VIP will set its clock to **any** NTP packet that it sees, even if they are not destined to the VIPs IP address.

### Software Fixes

1. Various FTP fixes including occasional corruption and support full pathnames has been resolved.
2. Security fix, password no longer available in the command history buffer.
3. Ethernet configuration not persistent the problem has been resolved.
4. Under heavy load of multicast traffic the unit may infrequently stop passing traffic. This has been resolved.
5. The number of supervisor logins is restricted to one per interface (serial and Ethernet).
6. Various minor fixes to increase unit stability.
7. The password is not case sensitive.

### Known Issues:

1. Setting the DPC link margin to unrealistic levels will cause the radio to making constant adjustments, which can affect performance and generate excessive log updates and email alerts.



## **Status (Mandatory, Recommended or Optional)**

**Recommended** – This SFCO does not include any service affecting issues but includes new enhancements that allow more flexibility for maintenance. Installation is optional.

**Note:** Some of the new features require that all radios in the network be upgraded for proper functionality.

## **Prerequisites**

In order to fully implement version 2.60.02, **the boot loader MUST be version 1.15, Failure to do so may cause the radio to become inoperable, requiring a software re-build that can only be done at EION's factory.** Boot loader 1.15.1 is supplied with this version. This software is supported on all models of VIP 110-24 and may be applied to all previous hardware platforms.

The instructions on how to upgrade the boot loader are given in Application Note VIP11024-148D, supplied with this upgrade package. Follow the instruction carefully to upgrade the software correctly. The VIP software image files are held in the BinFiles.zip archive, which is password, protected. The password to open the file is "Calgary".

***Please note that by opening the BinFiles.zip file using the password supplied, you acknowledge that you have read and understood the warning notice.***

## **Upgrade Procedure**

*This section provides details specific to this upgrade. User Manual and Application Note procedures may be reference to aid in the upgrade.*

Upgrade the VIP product using the following procedures:

1. Unzip the file ***vip110-24\_v2-60-02.zip*** to your c:\ directory. There will be 4 files:
  - a. **BinFiles.zip** – The software for the VIP product.
  - b. **SFCO-VIP110-004.pdf** – These Software Release Notes.
  - c. **Operators\_Manual\_rev\_j.pdf** – User Manual.
  - d. **App148D.pdf** – Application note for Bootloader update and Firmware installation.



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2. Read the Warning\_Must\_Read\_First.txt file or Prerequisite section, and then extract the contents of the BinFiles.zip archive to the directory containing the ECON program, or to a known directory if you are using a serial connection to transfer files to the radio.
3. Follow application note APP148D.pdf to upgrade the bootloader and operational firmware.

## **Back-out Procedure**

Follow the upgrade procedure in the User Manual, selecting the older version of Operation Code as the default program. When you log into radio after downgrading the software the radio will be in a locked state. To unlock the radio follow the procedure below.

- Login to the radio using the public password
- Issue the command unlock ec="supervisor" or supervisor level password that has been configured

DO NOT revert back to an older version of Boot Loader code unless advised to do so by Eion technical support. Technical Support will advise you at that time on the safest way to proceed, based on the current status of your radio.

## **Files Included**

These files are found in the protected BinZip.zip archive.

Bvip01-15-01.bin	260,992 Bytes	2/20/2004 11:28 PM
Bvip01-15-01.dwn		5/28/2004 9:50 AM
vip02-60-02.bz	271175 Bytes	2/26/2007 12:12 PM
vip02-60-02.bin	699296 Bytes	2/26/2007 12:12 PM
vip02-60-02.dwn		2/27/2007 1:27 PM
Web_en.	75383 Bytes	2/21/2007 5:16 PM
App148D.pdf		2/27/2007 11:02 AM